

Date: Sat, 24 Jul 93 16:46:25 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #894
To: Info-Hams

Info-Hams Digest Sat, 24 Jul 93 Volume 93 : Issue 894

Today's Topics:

(none)

6 MTR OPENING TO SPAIN/EAST COAST USA

Aggie Chemist wants to be a HAM in TX!

ARRL opposes temporary permits

CQ Maine

CW continued [long]

Intermodulation

Policy of Reverse Autopatches, anything new?

Question About Kenwood 742 Remote Access

RACES Bulletin #284

Seek donations for Propagation Generators

VE Test Conditions

What do youYOU shop for?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 24 Jul 93 20:19:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: (none)
To: info-hams@ucsd.edu

Subject: 2m repeaters
Status: ON 32768
Mailed To: Info-Hams@UCSD.Edu

Planning a trip to Cornell University and Ithaca College.

Does anyone have a listing of the 2m repeaters and local net freqs?
Hope to make some new contacts!
Thanks in advance,
73's
John

John Rymell		
Computer Services	Email:	ryme@husky.bloomu.edu
Bloomsburg University	Amateur Radio:	N3PFF
Bloomsburg, PA 17815		

Date: 19 Jul 1993 14:43:16 GMT
From: mustang.mst6.lanl.gov!nntp-server.caltech.edu!news.claremont.edu!ucivax!
news.service.uci.edu!usc!math.ohio-state.edu!uwm.edu!linac!uchinews!cs.umd.edu!
skates.gsfc.nasa.gov!@hub.ucsb.edu
Subject: 6 MTR OPENING TO SPAIN/EAST COAST USA
To: info-hams@ucsd.edu

Almost all day Sunday, the East Coast of USA had opening to Spain and Northern Africa (Short opening). Maryland/VA started shortly after 8AM in morning local time (ESDT). NE was not in competition at early AM start. Worked were CT4KQ,ED7CD, etc. W3ZO worked EH7CD, then at 8:27, W3ZZ worked him!K1HTV worked an EH9 in 9AM period. His #98 & 99 for DXCC!

At 10-11 AM brought Spain in agn here. There was a connecting opening that allowed Texas (EL29 area) to also work into Spain (time unk).W3X0 and others got in.The 1st distric in NE had Spain in agn in evening PM. Also reports of 3AM USA opening agn to Spain!

This author only heard FLA E-Skip and went on his marry way to the beach with family. Next time!

Date: 24 Jul 1993 00:45 CDT
From: cs.utexas.edu!tamsun.tamu.edu!zeus.tamu.edu!tskloss@uunet.uu.net
Subject: Aggie Chemist wants to be a HAM in TX!
To: info-hams@ucsd.edu

Help! I have been studying nuclear magnetic resonance for the past two years (it includes a lot of RF in the 40 to 400 MHZ range) and want to join the ranks of Amateur Radio.

How does one go about this in an economical manner?

I have a RS PRO-2026 scanner (portabilized) and would like to know what freqs are good for someone like me who is interested in starting HAM.

What other news groups besides rec.radio.amateur.misc are good to run this post?

About how much would a basic starter set cost, what would it entail, and how long would it take to get a license (novice or tech)?

Does anyone know of HAMS in the College Station - Bryan TEXAS area who would be helpful?

If anyone is patient enough to answer these questions, I would prefer replys directly to my e-mail. Any advice would be greatly appreciated!!!!

Tim Skloss internet: TSKLOSS@venus.tamu.edu

Thanks in advance!

Date: 22 Jul 1993 17:02:01 GMT
From: olivea!korie!west.West.Sun.COM!l1-a!flloyd@uunet.uu.net
Subject: ARRL opposes temporary permits
To: info-hams@ucsd.edu

>SB QST @ ARL \$ARLB075
>ARLB075 Board meeting news
>
>ZCZC AG17
>QST de W1AW
>ARRL Bulletin 75 ARLB075
>>From ARRL Headquarters
>Newington CT July 18, 1993
>To all radio amateurs
>
>SB QST ARL ARLB075
>ARLB075 Board meeting news
>
>The ARRL Board of Directors met in Windsor Locks, Connecticut, July
>16-17. The following is a summary of the actions taken:
>
> ...
>
>The Board committed League support for the FCC efforts to implement
>electronic filing of license and upgrade applications. The General

>Counsel was directed to file comments opposing any attempt by any
>authority, other than FCC, to provide a point-of-examination
>temporary operating authority.

Hmmm. Here they (the ARRL) go again, blind-siding us with a policy position before having allowed sufficient (any?) time for open debate. Now in a preemptive strike they've deployed their legal SWAT team to file an opposition paper against allowing the issuance of temporary callsigns by the VE's.

Now darn it, I feel that if a person passes the test then they are entitled to the privlidges. When I got my first license I was no more qualified after waiting 10 weeks for the license than I was right after I took the test. The same applies for driver's licenses. Let's face it, you're more likely to kill somebody in a car than you are with an HT. I only learned of the proposed temporary callsign idea a couple of weeks ago (here on the net) and now, while still in gestation stage, the Board preemptively stomps their big ugly foot down on the proposal.

I don't think this issue has had enough exposure to the general ham population to warrant such a swift position by the league.

>
>The Board endorsed the concept of an international Amateur Radio
>permit, similar in nature to the international driver's license. It
>urged that the foundation be laid for the submission of a proposal
>to create such a permit to a future ITU conference.
>

And then, in amazement, I read the above! Yes, they'll fight temporary, VE-issued callsigns and yet are more than willing to pass the authority of issuing an international license to any state which can claim international sovereignty. Need an international license, no problem! Just visit or perhaps just send \$40 to some third world bureaucrat from Outer Slobovia and you're on your way. In other words, they don't trust our own VE's, but are perfectly willing to let unspecified offshore governments issue licenses.

Now I'm certain that there will be many which disagree with my opinions as stated above. Fine, I expect this. But it seems to me that the ARRL routinely makes influential decisions which affect hundreds of thousands of hams each year without asking us of our opinions.

Why doesn't the ARRL take opinion polls? The very idea that we elect representative members to voice our opinions in anachronistic at best. Has the ARRL ever held a general vote of the membership? Why can't

the ARRL poll its membership? Why does it continue to hold on to the decidedly disrepresentative method of governing?

I'll be the first to admit that I don't know who my local section manager is. I didn't vote at all in the last local section election. I don't think that it's possible for anyone other than myself to represent my views when it comes to voting for change. There could not have possibly been a nominee who represented my views on all of the issues which might arise. Why then, should I compromise by voting for a candidate which possibly represented some of my views?

I would say that I'm not in the minority of members who do not vote under the current system. Given that the ARRL influences decisions which affect all hams, not just ARRL members, then one must conclude that as a group (hams) we are decidedly underrepresented. Let's assume (please prove me wrong) that 1 in 10 ARRL members vote in the section elections. Given that the ARRL represents about a third of all hams, then the voting population represents one thirtieth of all hams. And to top this off, this 1/30 group does not vote on issues at all. It votes for people who will decide the issues for them. If there were a general elections among all ARRL members, not only would the ordinary joe actually have a real vote on issues, but the actual representation in the process would increase by as much as an order of magnitude.

It couldn't be that difficult for the ARRL to hold general elections. I get mail-in ballots cards once a year from several companies for which I'm a stock holder. Presumably, as a [member] I'm a 'stock holder' in the ARRL too. I get numerous mailings from the League each year, how much could it cost them to do a mass ballot? I suspect that cost is not the issue, but rather the desire by those currently in power not to dilute their considerable influence by the whims and will of the unwashed masses.

-fred

[Fred Lloyd, AA7BQ	Fred.Lloyd@west.sun.com]
[Sun Microsystems,	Systems Engineer]
[Phoenix, AZ	(602) 224-3517]

Date: Thu, 22 Jul 1993 16:05:10 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!cs.utexas.edu!uwm.edu!psuvax1!
news.ecn.bgu.edu!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!csn!col.hp.com!
fc.hp.com!dave@network.ucsd
Subject: CQ Maine
To: info-hams@ucsd.edu

My state count has been holding at 49 for over a month now, and I'm getting impatient. Is there anybody out there in the state of Maine who would be willing to set up a schedule with me on 10, 15, 20, or 40 meters?

--

Dave Hodge KFOXD Hewlett Packard
dave@hpfcdjh.fc.hp.com User-Interface Hardware Lab
(303) 229-2141 (voice) Systems Technology Division
(303) 229-4515 (FAX) Ft. Collins, CO

Date: 23 Jul 93 00:38:06 GMT
From: ddsww1!indep1!clifto@uunet.uu.net
Subject: CW continued [long]
To: info-hams@ucsd.edu

In article <3euy7B2w165w@nj8j.atl.ga.us> ben@nj8j.atl.ga.us (Ben Coleman) writes:
>I used to work with a woman whose hearing went higher in frequency than
>usual. A misadjusted or just plain old monitor would run her out of the
>room because the 15075 Hz horizontal sweep would get too loud.

As a TV serviceman years ago, this came in handy for me with customers with a sense of humor. I'd misadjust the horizontal hold from the back on a formerly watchable set before plugging it in, then turn it on and say "Now, isn't that better?" The reactions I got were hilarious, but when I'd adjust it by ear to lock the picture without looking, a lot of jaws hit the carpet!

Once I fixed my brother's old TV, which had individual plug-in wires connecting to the deflection yoke. I deliberately reversed the vertical deflection wires, which of course made the picture upside-down, and when he complained, I leaned over the set from the back (thus looking at the picture upside-down) and said "I don't see anything wrong with it...!"

--

+-----+
| Cliff Sharp | clifto@indep1.chi.il.us OR clifto@indep1.uucp |
| WA9PDM | Use whichever one works |
+-----+

Date: Thu, 22 Jul 1993 15:31:48 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!cs.utexas.edu!uwm.edu!psuvax1!
news.ecn.bgu.edu!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!csn!col.hp.com!
fc.hp.com!myers@network.
Subject: Intermodulation

To: info-hams@ucsd.edu

Kevin Purcell, Rho (a-kevinp@microsoft.COM) wrote:

> In response to Bob Myers KC0EW post where he says a mixer must have a
> non-linear component I respond:

> Q: Where is the non-linear components in a doubly balanced diode or
> Gilbert cell mixer?

Kevin, you misunderstood my response; I did not say that the mixer had to have non-linear components (although any that I can think of *do* - your example requires diodes, which are the classic non-linear component!), but rather that the output could not be described by a linear equation. THIS is the consideration which determines whether a circuit is "linear" or "non-linear."

The output of a mixer is, as you say, the product of the inputs; it is therefore not describable by an equation of the form $V_{out} = AV_{in} + C$, where A and C are both constant (in other words, the equation of a line). Any time you see something that operates by virtue of switching action, you can be pretty sure that the circuit in question behaves in a non-linear fashion.

You can also confirm this by considering what the output of the double-balanced diode mixer looks like relative to the two inputs in the time domain; one input creates the "envelope" of the output waveform, but note that its own original waveform is distorted by the sampling action of the diode switches (you can view such a mixer as sampling at the carrier rate, with a sign change every half-cycle of the carrier). The carrier *frequency* is present in the output, but the carrier waveform is lost (the requirement for operation of such a mixer is that the carrier be of a certain min. amplitude, but the carrier amplitude variations are NOT well-preserved in the output).

> operates by virtue of its switching action. The output is the product
> of the two inputs. In the case of the Gilbert cell mixer the output
> really is $A \times B$ over a very wide range. For the diode DBM you need some
> drive to switch the diodes on an odd making the LO signal roughly a
> square wave with amplitude +1 and -1. Which is why they need a
> reasonable amount of drive so you keep the diodes OUT of their
> non-linear region so as to get good IMD performance. This is why diode
> DBMs have superior IMD performance to conventional square law mixers
> (which is what you describe in your post), and give even better IMD
> performance when driven by a square wave rather than a sine wave. The
> same math works just as well for this type of mixer as the square law
> mixers you describe, except that you concentrate on $\sin(At)\sin(Bt)$ or
> more correctly for square wave drive the second term has to be the sum
> of all the odd harmonics (n) weighted by $1/n$.

Eh? You cannot keep diodes both "out of their non-linear region" and expect switching action from them; what you're trying to do is to make sure that the diode is driven ON far enough to avoid the distortion of the switching "knee", but I would hardly call that keeping the diode in a linear region!

> These mixers avoid the "close in" distortion problem you describe.

I'm not sure what you mean by "close in" distortion - if you're talking about output signal components at the sum and difference frequencies, you'd BETTER not avoid them; those are the sidebands!

Bob M. KC0EW

Date: 22 Jul 93 13:38:07 EDT
From: world!ksr!jfw%ksr.com@uunet.uu.net
Subject: Policy of Reverse Autopatches, anything new?
To: info-hams@ucsd.edu

jerry@isi.com (Jerry Gardner x323) writes:
>In article <morgdw.2.743277046@saturn.wwc.edu> morgdw@saturn.wwc.edu (DWIGHT CLINTON MORGAN) writes:
>>Have been off the net for awhile, has any new policies been released on
>>reverse autopatches? Thanks.

>Specifically, can one order pizza using a reverse autopatch? :-)

No, but the pizza can now order you!

:-)

John, WB7EEL

Date: 24 Jul 93 09:29:41 GMT
From: news.service.uci.edu!orion.oac.uci.edu!easu348@network.ucsd.edu
Subject: Question About Kenwood 742 Remote Access
To: info-hams@ucsd.edu

This might sound confusing but here it goes...

A friend of mine is having problems with the remote access feature on his Kenwood 742. He has the instructions strait from Kenwood, but apparently, the radio needs a modification to perform the remote access without physically turning the remote control feature on AND off at the radio.

Can anybody tell me if it's true that it needs a modification to perform this feature without turning it on and off from the 742 itself? If it does need a mod., how difficult is it, and could it be easily explained? If it does not need the mod., how do you do this function?

I hope that wasn't too confusing. Thanks VERY much for any responses!

--

Andrew Parker | KD6TGM | easu348@orion.oac.uci.edu

Date: 24 Jul 93 19:31:29 GMT
From: news-mail-gateway@ucsd.edu
Subject: RACES Bulletin #284
To: info-hams@ucsd.edu

Bid : \$RACESBUL.284

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL RACES OPERATORS IN CA (ALLCA: OFFICIAL)
ALL AMATEURS U.S. (@ USA: INFORMATION)
FROM: CA STATE OFFICE OF EMERGENCY SERVICES
(KH6GBX @ WA6NWE.CA)
2800 Meadowview Rd., Sacramento, CA 95832
(916)262-1600
Landline BBS open to all: (916) 262-1657
RACESBUL.284 DATE: July 26, 1993

SUBJECT: OPS - Techniques - Part 2/2

11. Informed as to the type of terrain involved for your site?
(Propagation considerations, hills, valleys, etc.) Yes___NO___Comments:
12. Informed that your site required more than one radio or mode of operation such as HF, VHF, UHF, voice, packet and AMTOR so that you could prepare for possible interference? Yes___NO___Comments:
13. Were you informed of the type of power available?
Yes___NO___Comments:
14. Informed that you would have to furnish or to be prepared with some type of emergency or back-up power? Yes___NO___Comments:
15. Provided with the proper message formats?
Yes___NO___Comments:
16. Informed of the precedence of traffic to be handled?
Yes___NO___Comments:
17. Informed of the type of traffic you would be handling?
Yes___NO___Comments:
18. Informed of the net operating procedures you would be following?

Yes___NO___Comments:

19. Were you kept informed as to the status of incident operations?

Yes___NO___Comments:

20. Other items and comments. Use back side if needed and thank you!
(end of form)

EOM

RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races
and can be retrieved using FTP.

Date: 23 Jul 93 08:09:44 +1700
From: cs.utexas.edu!newsfeed.rice.edu!lub001.lamar.edu!lairdpg@uunet.uu.net
Subject: Seek donations for Propagation Generators
To: info-hams@ucsd.edu

The 20 and 15 meter Ham Radio bands will be down during the weekend of July 24th through the 25th. It seems as if the propagation generators have been going on the spur again. According to the Engineer in Charge of the Propagation generator Center in Washington, D.C., The multi-converters are not absorbing the sun spot neutrons and as such, they require adjustment. The last time this happened, no action was taken and the 20 meter band caught on fire and also spread to nearby bands. This resulted in a loss of some radio spectrum to amateur radio operators. So, if you are sending or saying your CQ's this weekend, just remember, the band is down for repair. The Engineer did say however, that the band should be back up early Sunday evening for those individuals who just have to make contact this weekend.

Date: Thu, 22 Jul 1993 17:13:59 GMT
From: olivea!inews!sousa.intel.com!jreece@ames.arpa
Subject: VE Test Conditions
To: info-hams@ucsd.edu

hlester@as.arizona.edu (Howard Lester) writes:

> ... Although I successfully passed the Extra Class license elements
> (hooray!), I am appalled at the noise level allowed at the two separate
> testing sites I attended...

> Any other experiences? Is this common?

You wouldn't believe. When I took the first code test the other testee was allowed to bring his small child into the room and sit him at the table. The child would sit quietly until the tape recorder was turned on, and then

he would start to fidget, squirm, grunt, sigh, and so on. I was sandbagging that level a bit, so I was able to block out the distraction and pass, but the father wasn't so lucky...

--

John Reece "This lifeboat is full"
KD6RXL
Not an Intel spokesman

Date: Sat, 24 Jul 1993 01:59:14 GMT
From: gatech!asuvax!ennews!mcdphx!schuch@uunet.uu.net
Subject: What do youYOU shop for?
To: info-hams@ucsd.edu

I have some very good friends who have a couple of retail computer/surplus/salvage/scrap stores here in Arizona. They are opening their third retail outlet and want to expand their piece parts line to cater to the local university electronics crowd. They have asked me what a good basic starting assortment of components would be. They do not have the budget to go out and buy 25 each of every 74XXX part so they just want to hit the highlights, stock things that have a reasonable chance of moving.

Sooo.....

What would YOU want to see in a hobbiest electronics store?
What do you find yourself regularly running out to get?

I, and they would appreciate and suggestions you may have. Seriously, when was the last time a retailer asked YOU what you would like to see on the shelves.

Thanks,
John

+-----+
| John R. Schuch - Motorola Computer Group - Manufacturing Engineering |
| N7XVS - schuch@phx.mcd.mot.com - (602) 438-3008 - CompuServe: 70733.3330 |
+-----+

Date: 22 Jul 1993 17:48:46 GMT

From: swrinde!cs.utexas.edu!math.ohio-state.edu!howland.reston.ans.net!
spool.mu.edu!olivea!korie!west.West.Sun.COM!cronkite.Central.Sun.COM!
sixgun.East.Sun.COM!seven-up.East.Sun.COM!dr-pepper.
To: info-hams@ucsd.edu

References <2365@indep1.UUCP>, <1993Jul21.120648.20463@hemlock.cray.com>,
<18016@news.duke.edu>spoo
Subject : Re: TS50 Illegal!

In article <18016@news.duke.edu> jbs@ee.ee.duke.edu (Joe B. Simpson) writes:
>In article <1993Jul21.120648.20463@hemlock.cray.com> dadams@cray.com writes:
>>
>>I wish the rule were ammended to allow licenced Amateurs the privelege to
>>use 11 meters (as secondary users, of course) also allowing them to
>
>Because the FCC correctly assumes that the hams would not stay within the
>4 watt output limit.
>

That's because hams would correctly assume that they would need the full
100 watts just to be competative with the locals! (not to mention an
echo mike and a sound effects box). :-)

-jim WB1B

--
Jim Vienneau, Sun Microsystems Inc - Chelmsford, MA
Email: jimv@east.sun.com, Amateur Radio: WB1B
Good old Ma Bell (well old anyway): (508)442-0372

Date: 23 Jul 93 00:15:13 GMT
From: ddsww1!indep1!clifto@uunet.uu.net
To: info-hams@ucsd.edu

References <CAH0Ir.1Hp@egr.uri.edu>, <17946@news.duke.edu>,
<4279@eram.esi.COM.AU>t
Subject : Re: Radio Shack

In article <4279@eram.esi.COM.AU> dave@esi.COM.AU (Dave Horsfall) writes:
>That depends on whether it's better to make a bunch of customers wait
>for a single phone query, or to make the customer on the phone wait
>for a bunch of people at the counter...

Re the latter, are you referring to the customer who wants to avoid
purchasing a book that Radio Shack went to some expense to provide for
sale to their customers and who demands that Radio Shack assist him in

using the information contained therein at no charge?

I'm no big proponent of RS, but for someone to expect free use of RS products AND free customer service time at the expense of other customers for a \$2 or less purchase seems a bit extreme to me. But then, some people are more equal than others...

--

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+-----+
|  Cliff Sharp  |      clifto@indep1.chi.il.us   OR  clifto@indep1.uucp   |
|   WA9PDM     |                        Use whichever one works      |
+-----+
```

Date: Thu, 22 Jul 1993 18:06:48 GMT

From: rtech!amdahl!netcomsv!netcom.com!pineapp@decwrl.dec.com

To: info-hams@ucsd.edu

References <22d93n\$khj@news.bu.edu>, <21870041@hplvec.LVLD.HP.COM>,

<CAKEoI.MBF@cbnews.cb.att.com>p

Subject : Re: Super Morse problem in Windows

Where can I get hold of SM401? The copy on the ARRL BBS is bad.

--

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+-----+
| INTERNET: pineapp@netcom.com           | Daniel Curry  WB6STW   |
| AMPRNET : dan@wb6stw.ampr.org [44.4.20.144] | E-:-) Ham Radio Operator |
| AX.25   : wb6stw@n0ary.#NOCAL.CA.USA.NA   | Redwood City, CA USA   |
+-----+
```

End of Info-Hams Digest V93 #894
